COBIOCARE

Natural Deodorant & Antiseptic active

INCI NAME:

Glycerin, Propolis Extract, Aqua (Water).

DOSE OF USE:

Antiodour produts: 1,5 %
Treatment for acneic lesions: 4 %

SOLUBILITY:

Hydro-soluble.Soluble in ethanol.

COSMETIC USE:

› Safe, natural & efficient deodorants.
› Natural treatments for acne and acneic lesions.
› Antiseptic
› Anti-inflammatory properties

DESCRIPTION:

COBIOCARE is a standardized **extract from propolis** obtained through a **high efficiency patented process**.

Propolis is a **mixture of substances secreted by bees** in order to **protect** them from exogenous factors like:

- ✓ **Bacteria and microorganisms**
- ✓ Oxidizing agents
- ✓ Ultraviolet radiations

COBIOCARE contains a **bio-active polyphenolic combination which reaches up to 15% in bioflavonoids and phenolic acids**, with extraordinary **antibacterial** and **antimicrobial properties.**

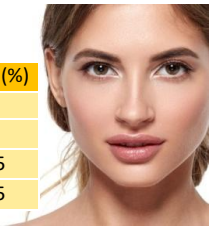
The polyphenols portion is the responsible for the protection from exogenous agents. Our research has focused precisely on that part, investigating on possible similarities between the **positive effects registered in the vegetable kingdom** and the cosmetic efficacy: **Biomimicry concept.**

Among them there are Apigenin, Chrysin, Galangin, Pinocembrin, Pinobanksin, and Quercetin.

In-VITRO Test: Bacterial inhibition

COBIOCARE has been tested on some bacterial strains at different concentrations to determine respectively MIC (Minimum Inhibitory Concentration) and MCB (Minimum Bactericidal Concentration):

Bacterial Strains	MIC (%)	MCB (%)
PROPIONEBACTERIUM ACNES	2,5	4
CANDIDA ALBICANS	2	4
STAPHYLOCOCCUS AUREUS	1	1,5
STAPHYLOCOCCUS HOMINIS	1	1,5



PROPERTIES:

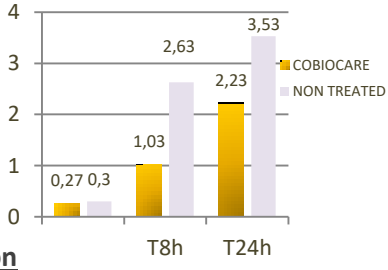
Based on its bactericidal activity, several In-vivo tests on its **deodorizing activity** and **acneic lesion reduction** were performed:

1) In-VIVO Test: Deodorizing Power

› 20 subjects panel
› Observations at 8h and 24h
› Application of a deodorant containing **1,5% COBIOCARE**
› Clinical evaluation by experts on the base of a scale from 0 to 5, (corresponding to different odor perceptions).
› Asymmetrical application (treated armpit/ non-treated)

COBIOCARE showed an odour reduction of 61%.

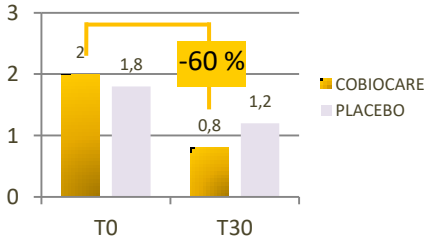
Objective Evaluation



2) In-VIVO Test: Reduction of acneic lesion

› 34 volunteers with Acne-Prone Skin.
›Application of **4% COBIOCARE** emulsion vs placebo
› IGA-FDA 0-4 Acne Severity scale was used:0 = skin without lesions, 4= severe acne.

In-vivo test: Reduction of acneic lesion



COBIOCARE showed a decrease of 60% in acneic lesions:

Naturally Effective

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